

SEQUENCE LISTING

<110> The Government of the United States of America, represented by the
Secretary, Department of Health and Human Services

<120> T20/DP178 AND T21/DP107 ARE ACTIVATORS
OF HUMAN PHAGOCYTE
FORMYL PEPTIDE RECEPTORS

<130> NIH171.001C1

<150> PCT/US00/12371

<151> 2000-05-05

<150> 60/132,686

<151> 1999-05-05

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Ala Ser Leu Trp Asn Trp Phe

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Ser Leu Trp Asn Trp Phe

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<400> 91
Lys Trp Ala Ser Leu Trp Asn Trp Phe
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<400> 92
Trp Ala Ser Leu Trp Asn Trp Phe
1 5

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<400> 93
Ala Ser Leu Trp Asn Trp Phe
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<400> 94
Ser Leu Trp Asn Trp Phe
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<400> 95
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<400> 96
Trp Asn Trp Phe
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<400> 98
Asn Asn Leu Leu Arg
1 5

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Asn Asn Leu Leu Arg Ala

1 5

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Asn Asn Leu Leu Arg Ala Ile Glu

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<400> 102

Asn Asn Leu Leu Arg Ala Ile Glu Ala

1 5

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1 5 10

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<400> 104
Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln
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<400> 105
Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His
1 5 10

<210> 106
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<400> 106
Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu
1 5 10

<210> 107
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<400> 107
Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu
1 5 10

<210> 108
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Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln
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<210> 109
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1 5 10 15

<210> 110
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1 5 10 15
Thr Val

<210> 112
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<400> 112
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 1 5 10 15
 Thr Val Trp

<210> 113
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<220>
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<400> 113
 Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
 1 5 10 15
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<210> 114
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<400> 114
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 Thr Val Trp Gly Ile
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<210> 115
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<400> 115
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 Thr Val Trp Gly Ile Lys
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<210> 116
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<400> 116
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 Thr Val Trp Gly Ile Lys Gln
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<210> 117
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<400> 117
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 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu
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<210> 118
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<400> 118
 Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu
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<210> 119
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<212> PRT
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<400> 119
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Thr Val Trp Gly Ile Lys Gln Leu Gln Ala
20 25

<210> 120
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<212> PRT
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<400> 120
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1 5 10 15
Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg
20 25

<210> 121
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<212> PRT
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<400> 121
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1 5 10 15
Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile
20 25

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<400> 122
Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
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Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu

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25

<210> 123
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 <212> PRT
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<400> 123
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 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala
 20 25 30

<210> 124
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 <212> PRT
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<400> 124
 Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val
 20 25 30

<210> 125
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<220>
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<400> 125
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 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 20 25 30

<210> 126
 <211> 33
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<400> 126

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1 5 10 15

Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu

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<210> 127

<211> 34

<212> PRT

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<220>

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<400> 127

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Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu

20 25 30

Arg Tyr

<210> 128

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 128

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu

1 5 10 15

Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu

20 25 30

Arg Tyr Leu

35

<210> 129

<211> 36

<212> PRT

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<223> Artificial Peptide

<400> 129

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu

1 5 10 15

Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 20 25 30
 Arg Tyr Leu Lys
 35

<210> 130
 <211> 37
 <212> PRT
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<220>
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<400> 130
 Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
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 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 20 25 30
 Arg Tyr Leu Lys Asp
 35

<210> 131
 <211> 4
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<400> 131
 Leu Lys Asp Gln
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<210> 132
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<400> 132
 Leu Lys Asp Gln
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<210> 133
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<400> 133

Arg Tyr Leu Lys Asp Gln
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<210> 134

<211> 7

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<400> 134

Glu Arg Tyr Leu Lys Asp Gln
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<210> 135

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<400> 135

Val Glu Arg Tyr Leu Lys Asp Gln
1 5

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<400> 136

Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5

<210> 137

<211> 10

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<400> 137

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1 5 10

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<400> 138
Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10

<210> 139
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<400> 139
Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10

<210> 140
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<400> 140
Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10

<210> 141
<211> 14
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<220>
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<400> 141
Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10

<210> 142
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 142
Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10 15

<210> 143
<211> 16
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<220>
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<400> 143
Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10 15

<210> 144
<211> 17
<212> PRT
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<220>
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<400> 144
Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp
1 5 10 15
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<210> 145
<211> 18
<212> PRT
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<220>
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<400> 145
Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys
1 5 10 15
Asp Gln

<210> 146
 <211> 19
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<220>
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<400> 146
 Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
 1 5 10 15
 Lys Asp Gln

<210> 147
 <211> 20
 <212> PRT
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<220>
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<400> 147
 Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 1 5 10 15
 Leu Lys Asp Gln
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<210> 148
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 148
 Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
 1 5 10 15
 Tyr Leu Lys Asp Gln
 20

<210> 149
 <211> 22
 <212> PRT
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<220>
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<400> 149
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 1 5 10 15
 Arg Tyr Leu Lys Asp Gln
 20

<210> 150
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 150
 Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val
 1 5 10 15
 Glu Arg Tyr Leu Lys Asp Gln
 20

<210> 151
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 151
 Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala
 1 5 10 15
 Val Glu Arg Tyr Leu Lys Asp Gln
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<210> 152
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 152
 Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu
 1 5 10 15
 Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 153
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<400> 153

Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile
 1 5 10 15
 Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 154

<211> 27

<212> PRT

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<220>

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<400> 154

His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg
 1 5 10 15
 Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 155

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

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<400> 155

Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala
 1 5 10 15
 Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 156

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

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<400> 156

Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln
 1 5 10 15
 Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 157
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 157
 Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu
 1 5 10 15
 Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25 30

<210> 158
 <211> 31
 <212> PRT
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<220>
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<400> 158
 Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln
 1 5 10 15
 Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25 30

<210> 159
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 159
 Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys
 1 5 10 15
 Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25 30

<210> 160
 <211> 33
 <212> PRT
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<220>
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<400> 160

Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile
1 5 10 15
Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp
20 25 30
Gln

<210> 161

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 161

Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly
1 5 10 15
Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys
20 25 30
Asp Gln

<210> 162

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 162

Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp
1 5 10 15
Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
20 25 30
Lys Asp Gln
35

<210> 163

<211> 36

<212> PRT

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<220>

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<400> 163

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
1 5 10 15
Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr

20 25 30
 Leu Lys Asp Gln
 35

<210> 164
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<220>
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<400> 164
 Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr
 1 5 10 15
 Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
 20 25 30
 Tyr Leu Lys Asp Gln
 35

<210> 165
 <211> 38
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<220>
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<400> 165
 Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
 1 5 10 15
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 20 25 30
 Arg Tyr Leu Lys Asp Gln
 35

<210> 166
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 <212> PRT
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<220>
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<400> 166
 Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly
 1 5 10 15
 Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys
 20 25 30
 Asp Gln

<210> 167
<211> 33
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<220>
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<400> 167
Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile
1 5 10 15
Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp
20 25 30
Gln

<210> 168
<211> 32
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<400> 168
Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys
1 5 10 15
Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
20 25 30

<210> 169
<211> 31
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<400> 169
Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln
1 5 10 15
Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
20 25 30

<210> 170
<211> 30
<212> PRT
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<220>
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<400> 170

Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu
 1 5 10 15
 Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25 30

<210> 171

<211> 29

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<400> 171

Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln
 1 5 10 15
 Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 172

<211> 28

<212> PRT

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<220>

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<400> 172

Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala
 1 5 10 15
 Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 173

<211> 27

<212> PRT

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<400> 173

His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg
 1 5 10 15
 Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
 20 25

<210> 174

<211> 26

<212> PRT
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<400> 174
Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile
1 5 10 15
Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
20 25

<210> 175
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 175
Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu
1 5 10 15
Ala Val Glu Arg Tyr Leu Lys Asp Gln
20 25

<210> 176
<211> 24
<212> PRT
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<220>
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<400> 176
Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala
1 5 10 15
Val Glu Arg Tyr Leu Lys Asp Gln
20

<210> 177
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<212> PRT
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<220>
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<400> 177
Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val
1 5 10 15
Glu Arg Tyr Leu Lys Asp Gln

<210> 178
 <211> 22
 <212> PRT
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<220>
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<400> 178
 Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
 1 5 10 15
 Arg Tyr Leu Lys Asp Gln
 20

<210> 179
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 179
 Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
 1 5 10 15
 Tyr Leu Lys Asp Gln
 20

<210> 180
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 180
 Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 1 5 10 15
 Leu Lys Asp Gln
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 Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
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 Lys Asp Gln

<210> 182
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 Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys
 1 5 10 15
 Asp Gln

<210> 183
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 Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp
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 Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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<210> 185
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Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
1 5 10

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Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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<400> 190
Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln
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Ala Val Glu Arg Tyr Leu Lys Asp Gln
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Val Glu Arg Tyr Leu Lys Asp Gln
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<400> 193
Glu Arg Tyr Leu Lys Asp Gln

1 5

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<400> 194
Arg Tyr Leu Lys Asp Gln
1 5

<210> 195
<211> 5
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<400> 195
Tyr Leu Lys Asp Gln
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<400> 196
Leu Lys Asp Gln
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<212> PRT
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<400> 197
Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln
1 5 10 15
Glu Lys Asn Glu Gln Glu Leu Glu Leu Asp Lys Trp Ala Ser Leu
20 25 30

Trp Asn Trp Phe
35

<210> 198
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 198
Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn
1 5 10 15
Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp
20 25 30
Phe

<210> 199
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
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<400> 199
His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln
1 5 10 15
Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe
20 25 30

<210> 200
<211> 29
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<220>
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<400> 200
Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu
1 5 10 15
Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe
20 25

<210> 201
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<400> 201

Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys
1 5 10 15
Trp Ala Ser Leu Trp Asn Trp Phe
20

<210> 202

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<400> 202

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
1 5 10 15
Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
20 25 30
Arg Tyr Leu Lys Asp Gln
35

<210> 203

<211> 38

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<400> 203

Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu
1 5 10 15
Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu
20 25 30
Arg Tyr Leu Lys Asp Gln
35